

深圳市云希科技有限公司

ShenZhen Yunxi Technology Co.,Ltd.

Antenna test Report

Customer: 锐铭鑫

Project Name:A-M114

RF Engineer:Wu Gong

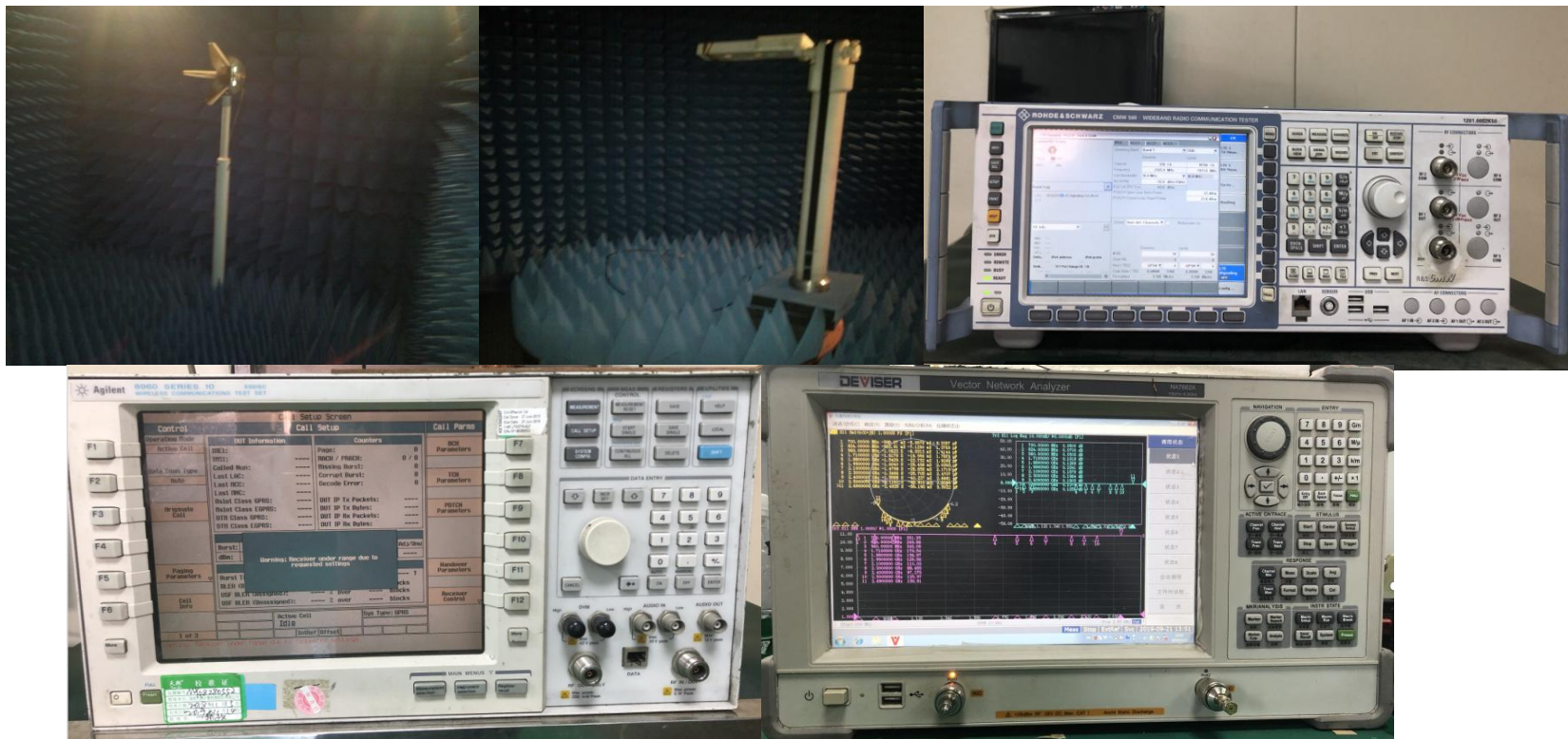
Testing Date:2023-8-18



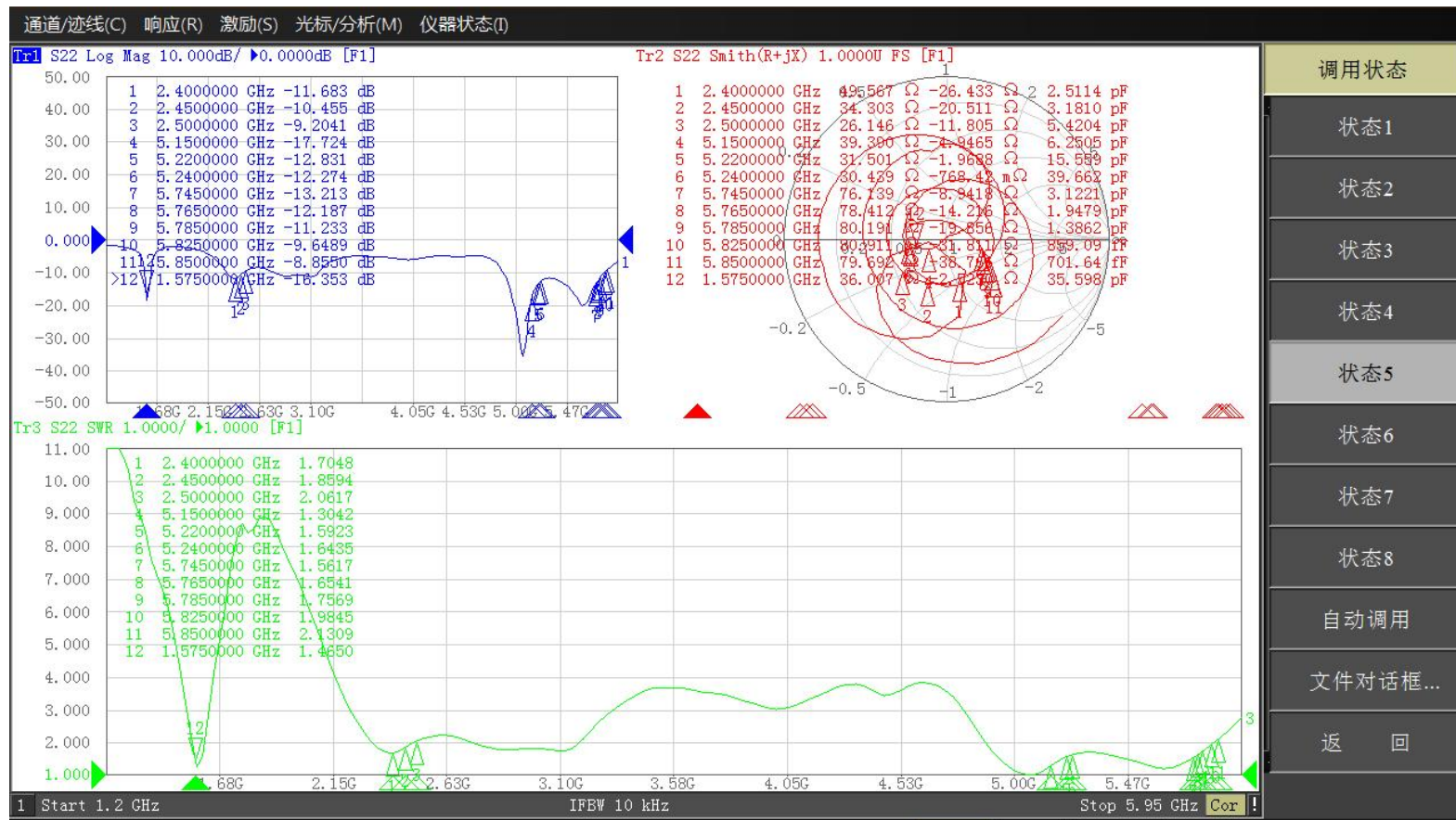
1.Project brief

NO.	ITEMS	DETAILS
1	工作频段 Operating band	WIFI/BT
2	频率范围 Frequency range	2400-6000MHz
3	天线类型 Antenna Type	PIFA
4	天线材质及实现形式 Antenna material and implementation form	The antenna is attached to the side shell using FPC
5	天线料号 Antenna part number	
	天线料号 Antenna part number	
6	输入阻抗 Input Impedance	50（Ω）
7	增益 Gain	
	RF	吴工
	ME	邹工

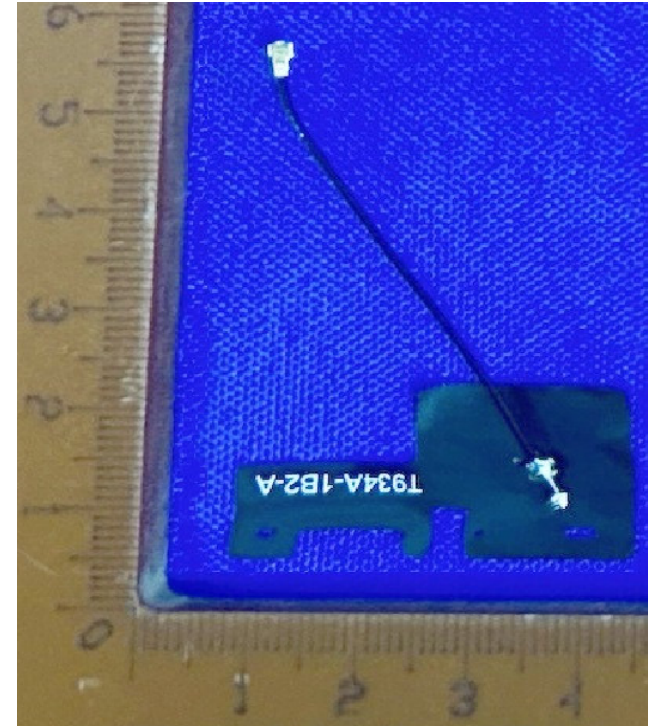
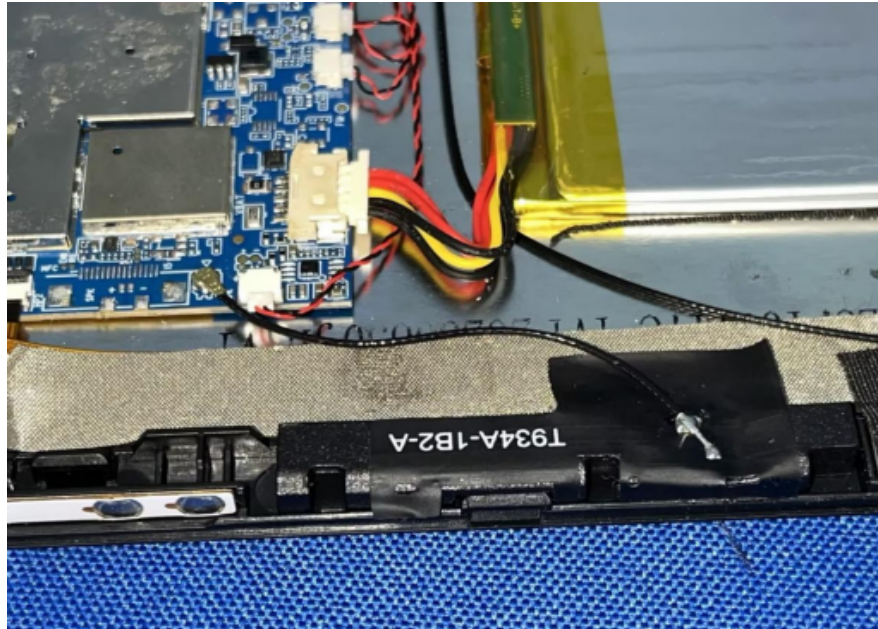
Test system, test equipment and Testing environment



Antenna Standing Wave Diagram

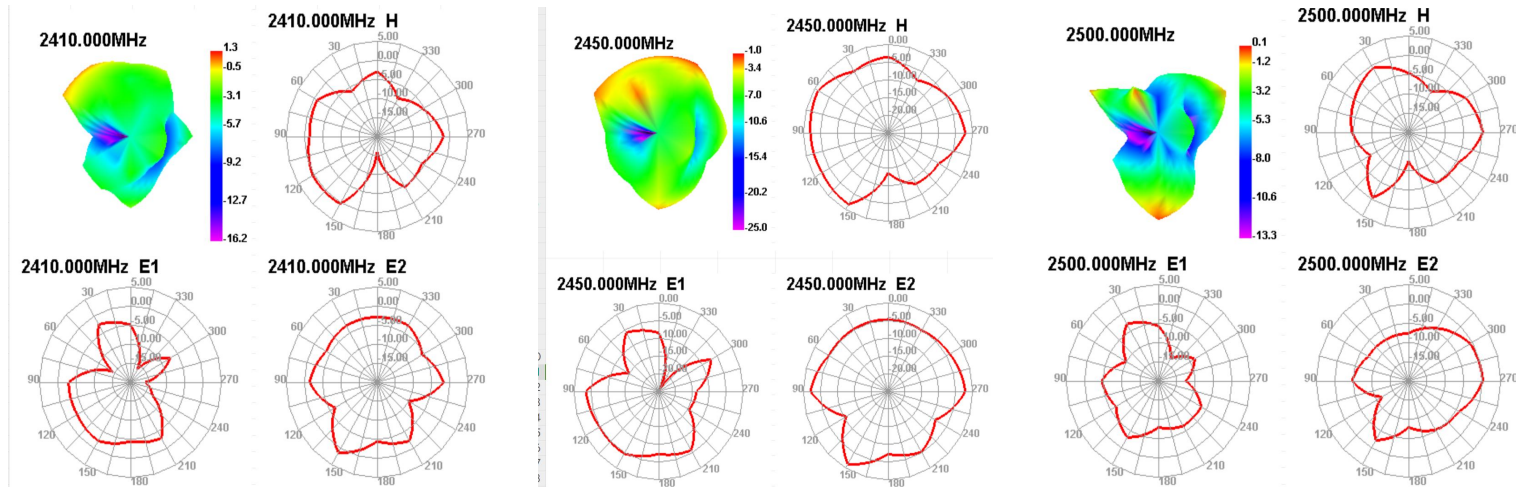


Antenna assembly environment processing diagram



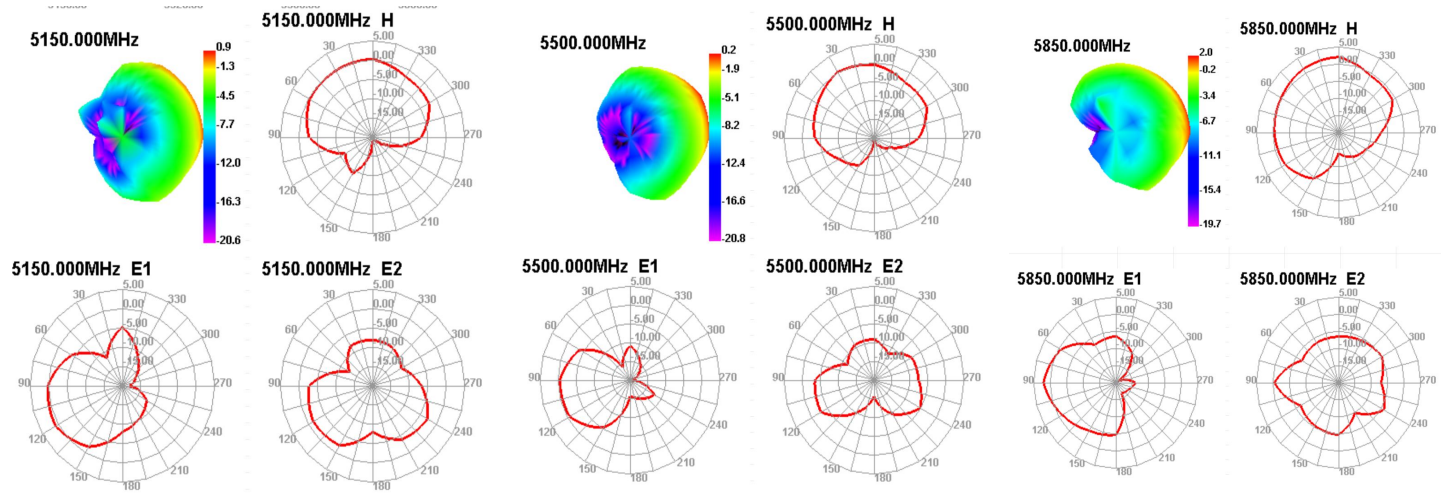
Antenna efficiency and gain

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	44.93	-4.57	0.4	-1.75	16.373	18.56	0.4	-16.76	48.17	48.27
2410	42.92	-3.67	1.3	-0.85	20.052	22.866	1.3	-16.18	48.82	48.98
2420	47.66	-3.22	1.68	-0.47	22.561	25.098	1.68	-17.84	49.21	49.73
2430	44.87	-4.58	0.15	-2	16.467	18.406	0.15	-21.27	47.85	48.18
2440	41.15	-5.07	-0.68	-2.83	14.636	16.514	-0.68	-23.83	47.45	47.61
2450	39.96	-5.23	-1.02	-3.17	14.345	15.614	-1.02	-25.04	47.52	47.61
2460	45.04	-3.46	0.88	-1.27	22.004	23.033	0.88	-21.68	49.2	49.47
2470	39.12	-4.42	-0.17	-2.32	17.837	18.287	-0.17	-19.84	48.51	48.69
2480	37.46	-5.61	-1.14	-3.29	13.624	13.838	-1.14	-18.08	47.62	47.62
2490	39.77	-5.72	-1.47	-3.62	13.413	13.358	-1.47	-15.92	47.76	47.65
2500	40.96	-4.44	0.13	-2.02	17.758	18.2	0.13	-13.34	48.93	48.83



Antenna efficiency and gain

Passive Test For WIFI5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHis (%)	DHis (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	42.41	-4.89	0.86	-1.29	10.736	21.673	0.86	-20.56	58.72	58.81
5220	39.4	-5.32	0.47	-1.68	9.955	19.444	0.47	-29.27	58.8	58.71
5290	38.09	-5.51	0.57	-1.58	9.654	18.437	0.57	-28.74	58.78	59.21
5360	46.31	-4.4	1.54	-0.61	13.18	23.133	1.54	-20.48	59.21	59.5
5430	43.79	-6.24	0.12	-2.03	9.243	14.552	0.12	-19.97	57.23	57.98
5500	42.54	-6.47	0.17	-1.98	9.468	13.076	0.17	-20.77	58.2	59.03
5570	49.45	-5.31	1.2	-0.95	13.132	16.317	1.2	-19.29	60.39	61.24
5640	40.13	-6.96	-0.46	-2.61	9.242	10.89	-0.46	-23.24	60.05	60.8
5710	36.61	-5.75	0.44	-1.71	12.152	14.454	0.44	-26.96	60.39	61.3
5780	43.53	-4.75	1.89	-0.26	15.282	18.251	1.89	-23.29	60.92	61.62
5850	46.24	-4.41	2	-0.15	17.349	18.893	2	-19.75	62.18	63.1



Note: If there are any unclear or questionable locations regarding this project, please contact me promptly

